

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG031620\
 Data File : BG044820.D
 Acq On : 16 Mar 2020 19:37
 Operator : CG/JU
 Sample : L1912-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 Z1-1

Quant Time: Mar 17 01:22:53 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG031020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 16 17:37:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.05	152	102904	20.00	ng	0.00
21) Naphthalene-d8	10.86	136	408347	20.00	ng	0.00
39) Acenaphthene-d10	14.68	164	276380	20.00	ng	0.00
64) Phenanthrene-d10	17.43	188	623167	20.00	ng	0.00
76) Chrysene-d12	21.70	240	523538	20.00	ng	0.00
87) Perylene-d12	24.91	264	596548	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	660915	99.98	ng	0.00
7) Phenol-d6	7.20	99	937419	97.60	ng	0.00
23) Nitrobenzene-d5	9.21	82	617137	66.32	ng	0.00
42) 2,4,6-Tribromophenol	16.17	330	396096	109.46	ng	0.00
45) 2-Fluorobiphenyl	13.31	172	1256283	65.09	ng	0.00
79) Terphenyl-d14	20.04	244	1834453	65.54	ng	0.00

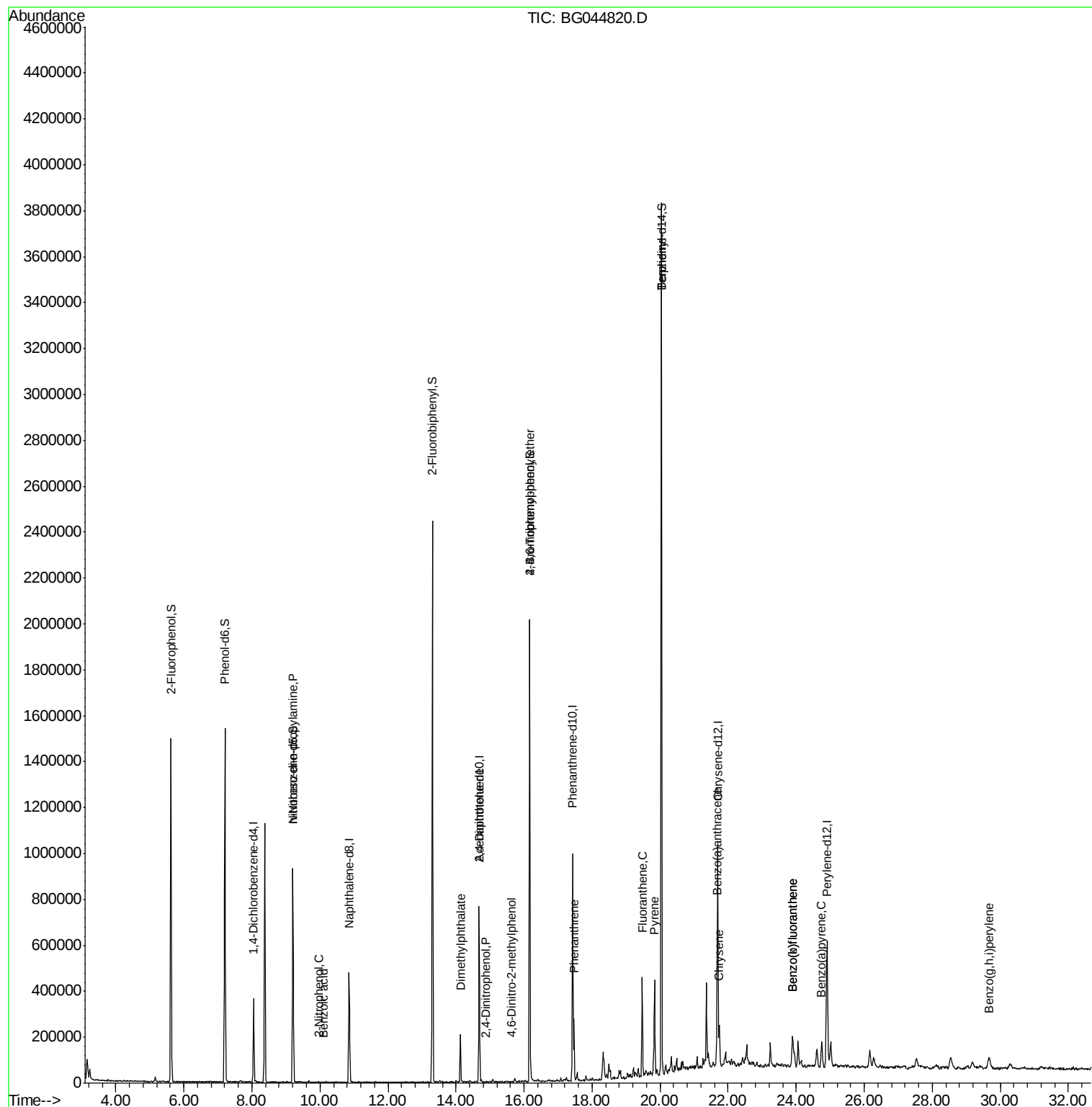
Target Compounds				Qvalue			
9) Benzaldehyde	7.21	77	2114	Below Cal	#	14	
19) n-Nitroso-di-n-propylamine	9.21	70	82286	12.13	ng	#	76
26) 2-Nitrophenol	9.96	139	142	5.55	ng	#	28
32) Benzoic acid	10.12	122	66	9.68	ng	#	1
50) Dimethylphthalate	14.13	163	139265	6.33	ng		98
54) 2,4-Dinitrophenol	14.87	184	56	8.34	ng	#	21
57) 2,4-Dinitrotoluene	14.68	165	35827	5.89	ng	#	22
65) 4,6-Dinitro-2-methylphenol	15.63	198	71	7.75	ng	#	33
67) 4-Bromophenyl-phenylether	16.16	248	27553	3.54	ng	#	1
71) Phenanthrene	17.47	178	169084	5.08	ng		98
75) Fluoranthene	19.48	202	274458	6.92	ng		97
77) Benzidine	20.04	184	35530	2.09	ng	#	91
78) Pyrene	19.83	202	271384	7.07	ng		98
81) Benzo(a)anthracene	21.67	228	139707	3.71	ng		97
83) Chrysene	21.74	228	132956	3.69	ng		96
88) Benzo(b)fluoranthene	23.89	252	165680	4.21	ng		97
89) Benzo(k)fluoranthene	23.89	252	165680	4.45	ng		98
90) Benzo(a)pyrene	24.75	252	121558	3.30	ng		94
92) Benzo(g,h,i)perylene	29.68	276	81202	2.21	ng		95

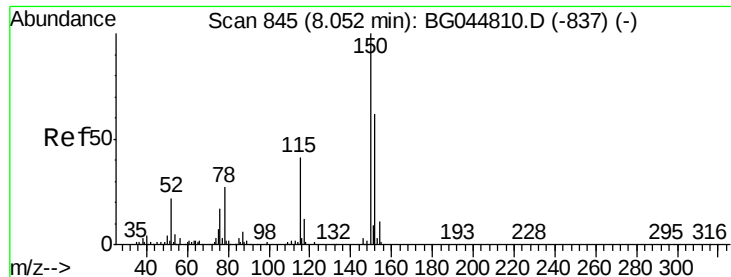
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Mar 16 17:37:15 2020
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.05 min Scan# 844

Delta R.T. -0.00 min

Lab File: BG044820.D

Acq: 16 Mar 2020 19:37

Instrument :

BNA_G

ClientSampleId :

Z1-1

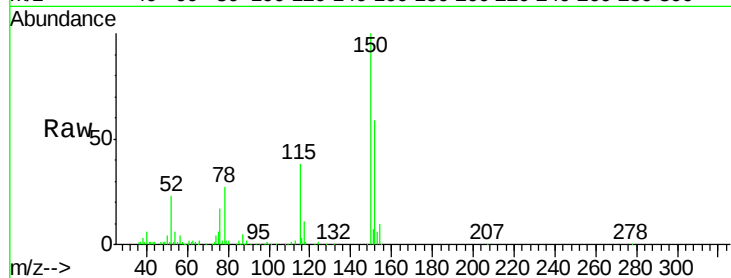
Tgt Ion:152 Resp: 102904

Ion Ratio Lower Upper

152 100

150 169.8 128.8 193.2

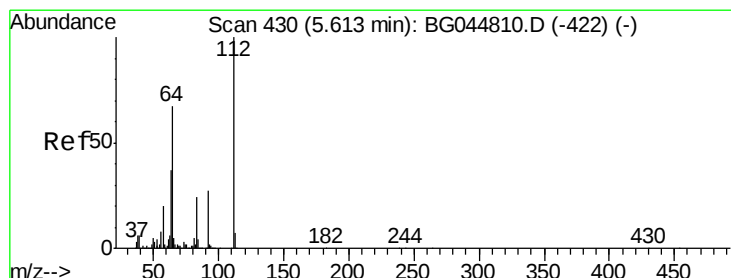
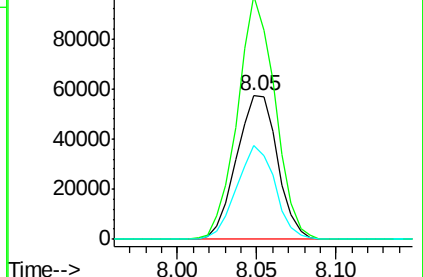
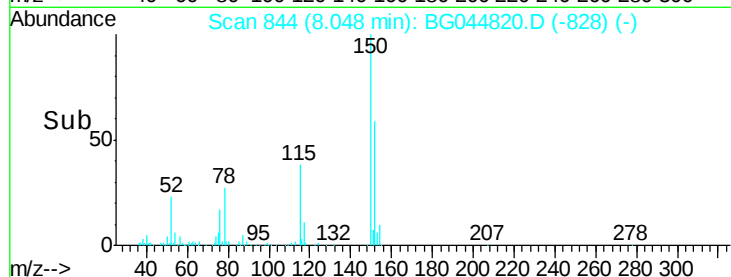
115 65.4 52.6 79.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 99.98 ng

RT: 5.62 min Scan# 431

Delta R.T. 0.01 min

Lab File: BG044820.D

Acq: 16 Mar 2020 19:37

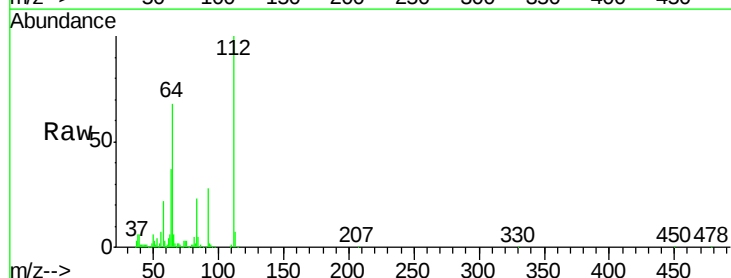
Tgt Ion:112 Resp: 660915

Ion Ratio Lower Upper

112 100

64 68.4 53.4 80.2

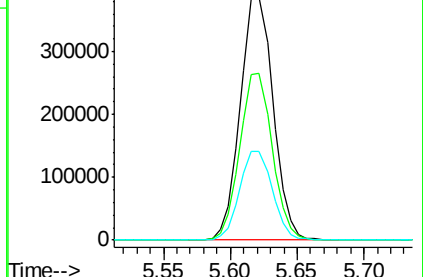
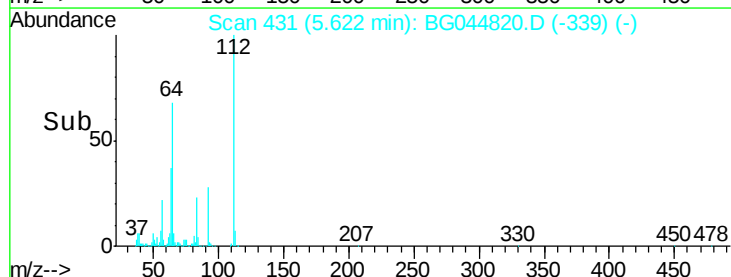
63 36.5 29.4 44.2

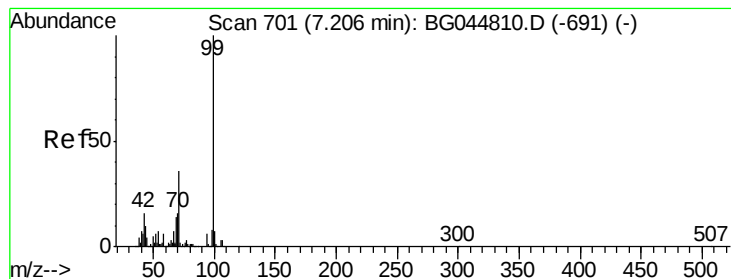


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 97.60 ng

RT: 7.20 min Scan# 700

Delta R.T. -0.00 min

Lab File: BG044820.D

Acq: 16 Mar 2020 19:37

Instrument :

BNA_G

ClientSampleId :

Z1-1

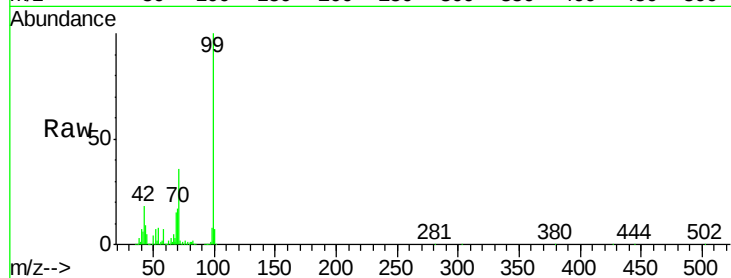
Tgt Ion: 99 Resp: 937419

Ion Ratio Lower Upper

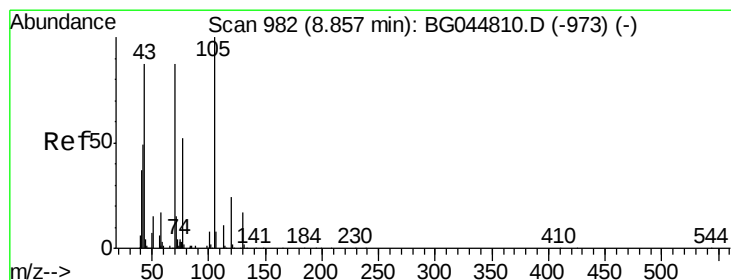
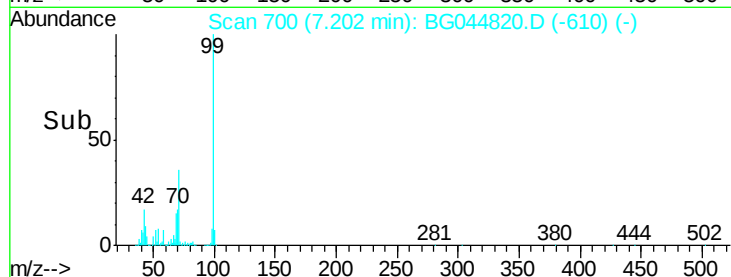
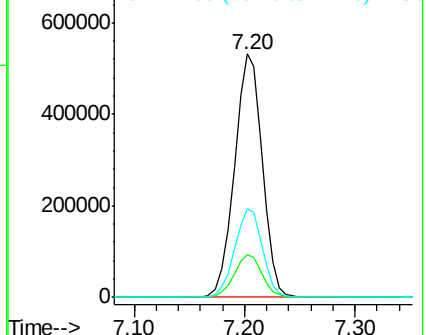
99 100

42 17.5 12.6 19.0

71 36.4 29.0 43.4



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#19

n-Nitroso-di-n-propylamine

Concen: 12.13 ng

RT: 9.21 min Scan# 1041

Delta R.T. 0.35 min

Lab File: BG044820.D

Acq: 16 Mar 2020 19:37

Tgt Ion: 70 Resp: 82286

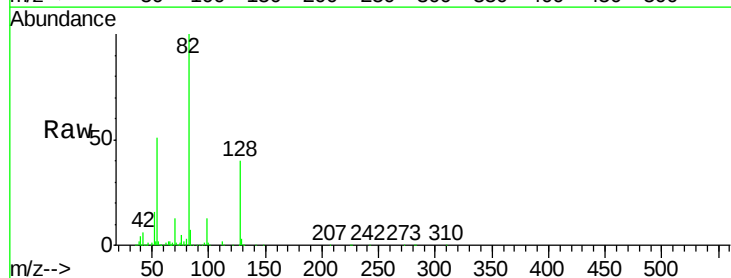
Ion Ratio Lower Upper

70 100

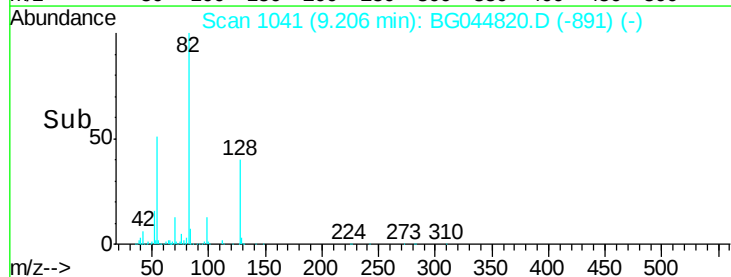
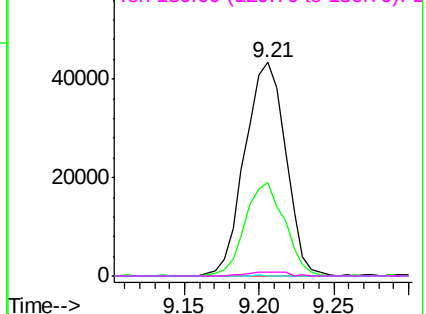
42 44.0 45.7 68.5#

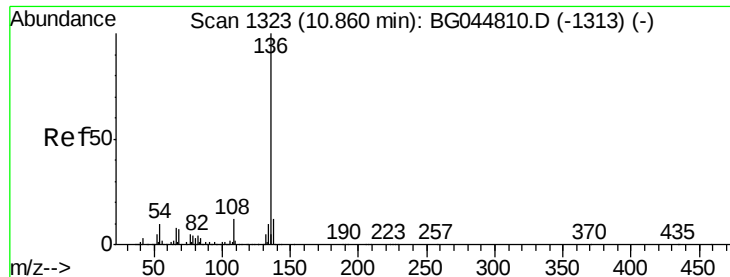
101 0.0 7.4 11.2#

130 1.8 15.9 23.9#



Abundance Ion 70.00 (69.70 to 70.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 101.00 (100.70 to 101.70): BGC
Ion 130.00 (129.70 to 130.70): BGC

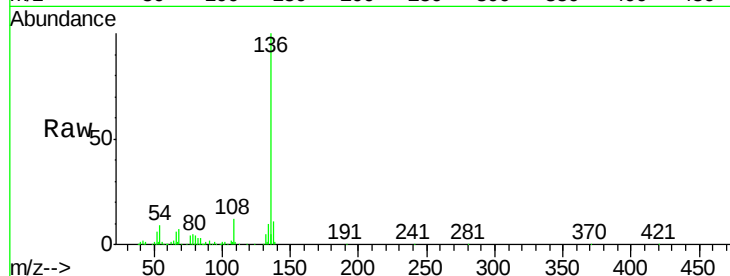




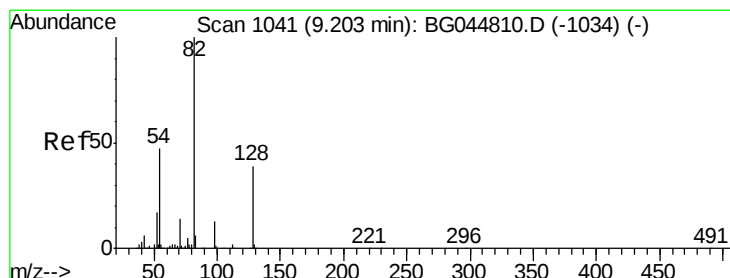
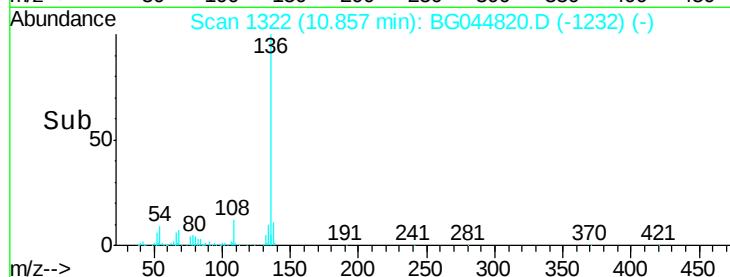
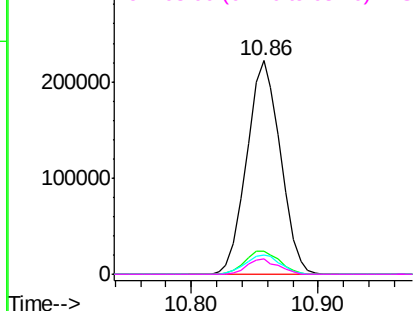
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.86 min Scan# 1322
Delta R.T. -0.00 min
Lab File: BG044820.D
Acq: 16 Mar 2020 19:37

Instrument :
BNA_G
ClientSampleId :
Z1-1

Tgt Ion:	136	Resp:	408347
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.8	14.6
54	9.2	7.9	11.9
68	7.0	5.4	8.0

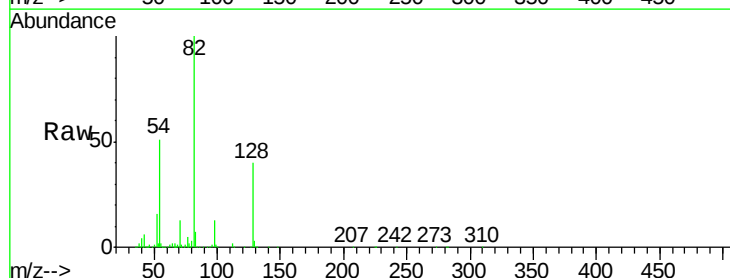


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

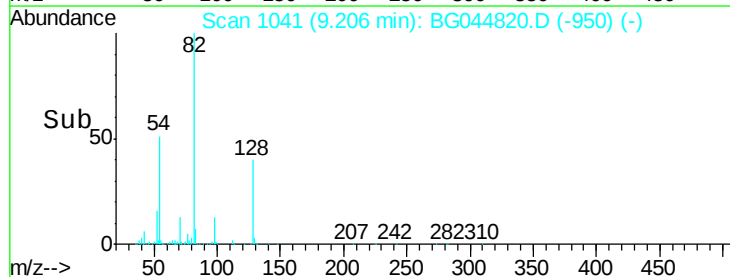
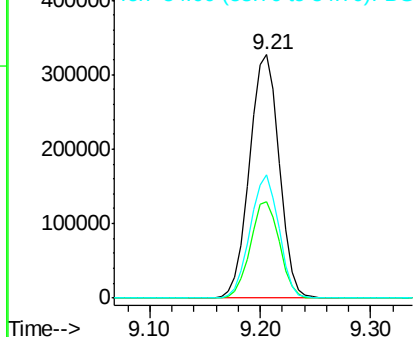


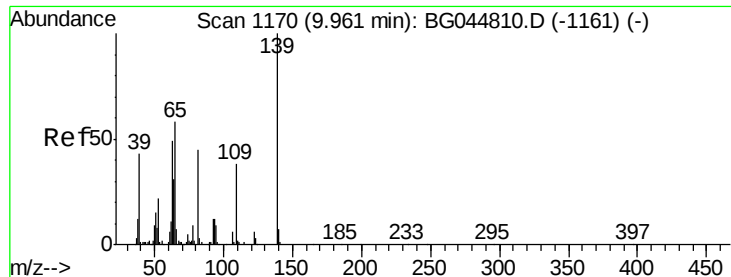
#23
Nitrobenzene-d5
Concen: 66.32 ng
RT: 9.21 min Scan# 1041
Delta R.T. 0.00 min
Lab File: BG044820.D
Acq: 16 Mar 2020 19:37

Tgt Ion:	82	Resp:	617137
Ion	Ratio	Lower	Upper
82	100		
128	39.7	30.6	46.0
54	50.5	37.1	55.7



Abundance Ion 82.00 (81.70 to 82.70): BGC
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BGC

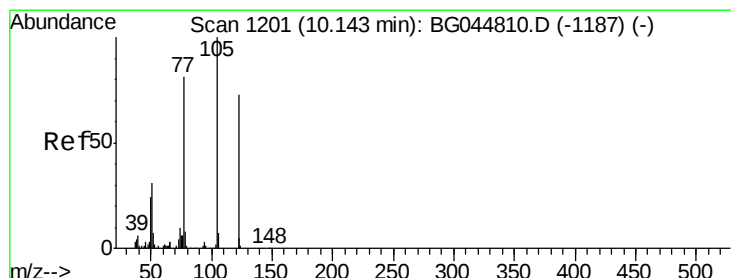
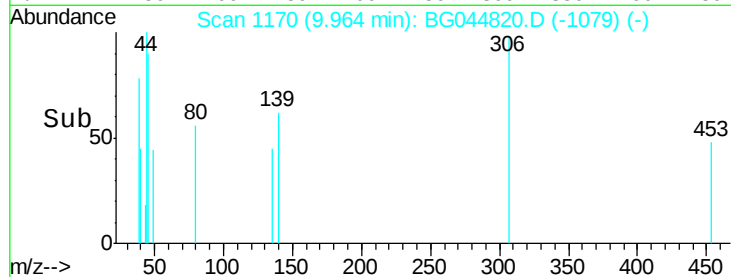
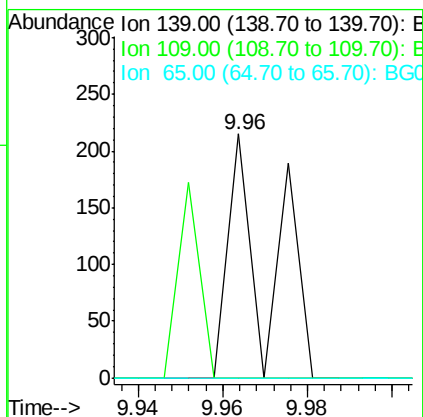
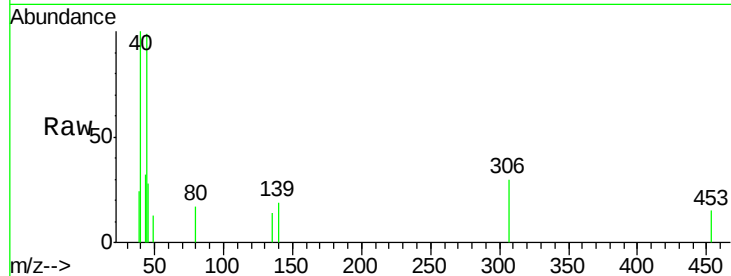




#26
2-Nitrophenol
Concen: 5.55 ng
RT: 9.96 min Scan# 1170
Delta R.T. 0.00 min
Lab File: BG044820.D
Acq: 16 Mar 2020 19:37

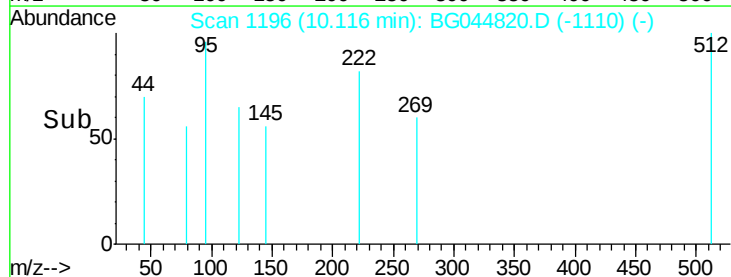
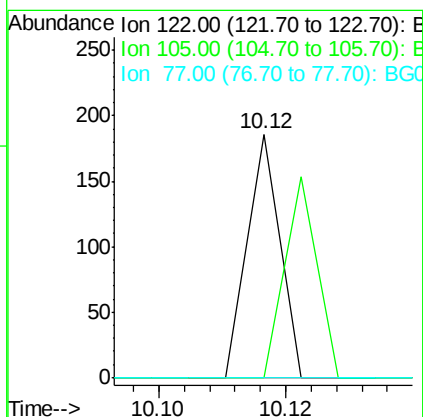
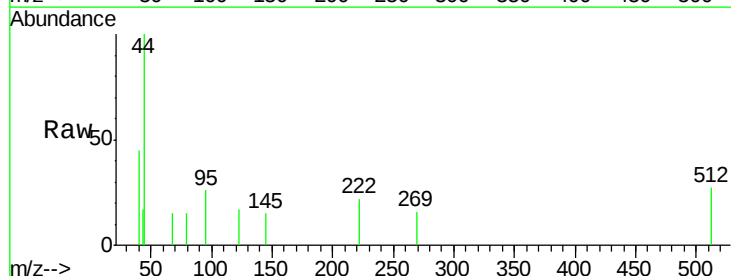
Instrument :
BNA_G
ClientSampled :
Z1-1

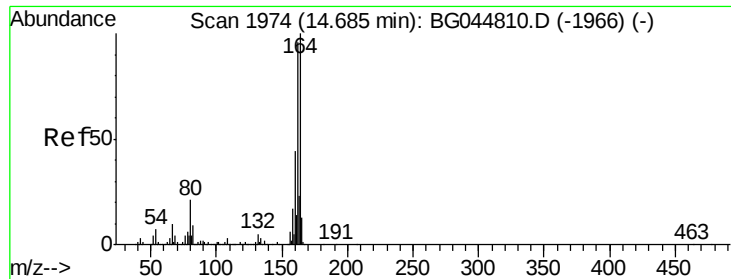
Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	30.2	45.4#
65	0.0	46.3	69.5#



#32
Benzoic acid
Concen: 9.68 ng
RT: 10.12 min Scan# 1196
Delta R.T. -0.03 min
Lab File: BG044820.D
Acq: 16 Mar 2020 19:37

Tgt Ion	Ratio	Lower	Upper
122	100		
105	0.0	109.1	149.1#
77	0.0	85.3	125.3#





#39

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.68 min Scan# 1973

Delta R.T. -0.00 min

Lab File: BG044820.D

Acq: 16 Mar 2020 19:37

Instrument :

BNA_G

ClientSampleId :

Z1-1

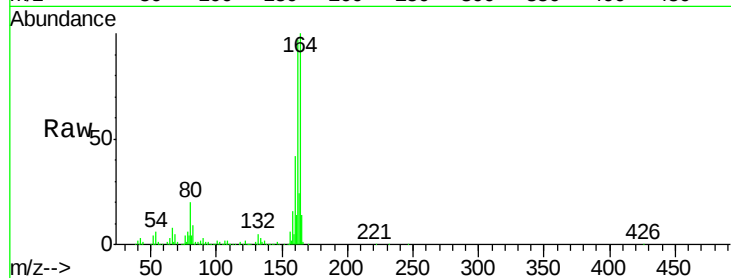
Tgt Ion:164 Resp: 276380

Ion Ratio Lower Upper

164 100

162 96.6 76.7 115.1

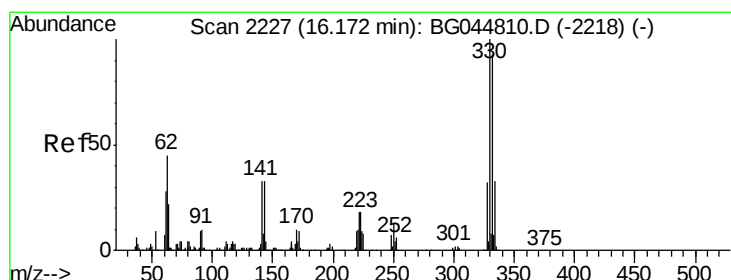
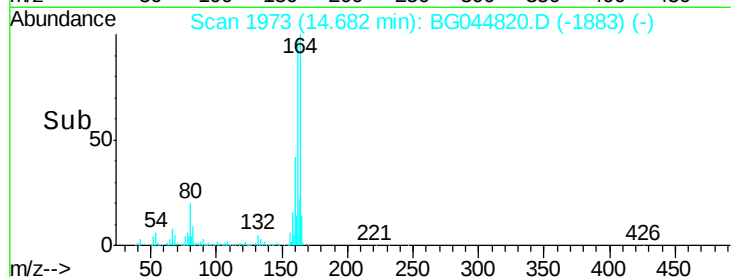
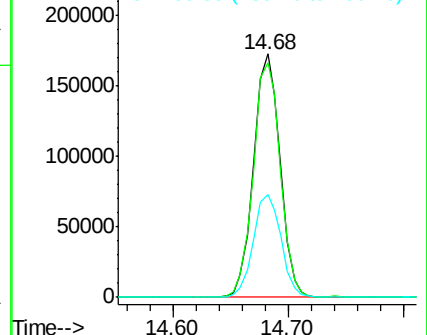
160 42.3 35.0 52.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 109.46 ng

RT: 16.17 min Scan# 2226

Delta R.T. -0.00 min

Lab File: BG044820.D

Acq: 16 Mar 2020 19:37

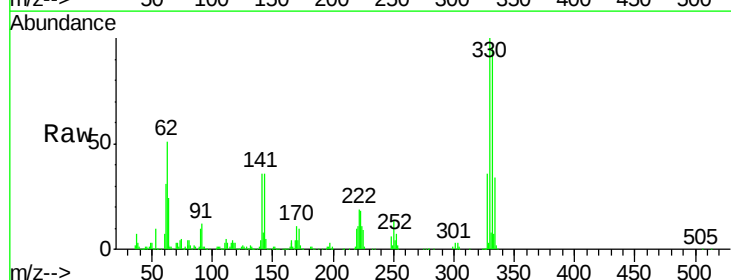
Tgt Ion:330 Resp: 396096

Ion Ratio Lower Upper

330 100

332 96.9 77.8 116.6

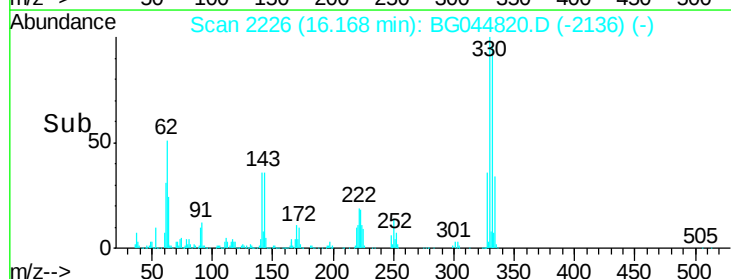
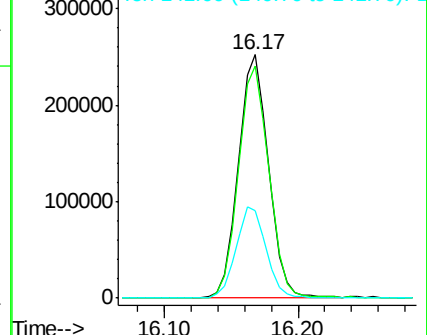
141 37.6 29.5 44.3

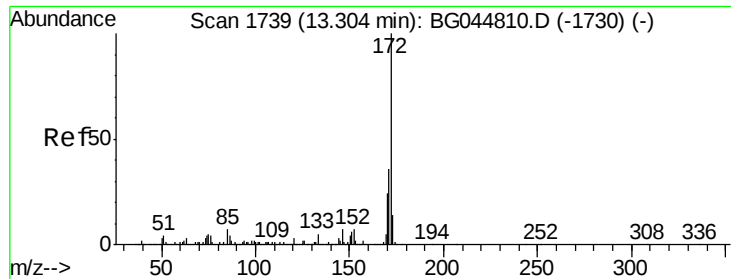


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

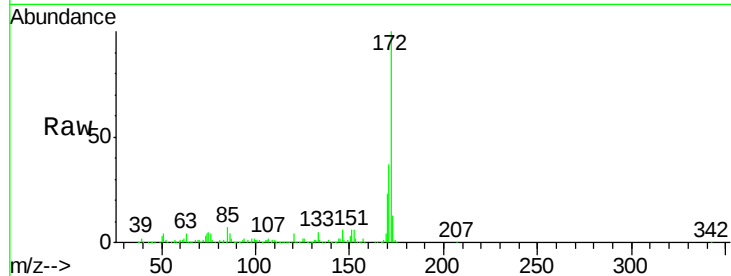




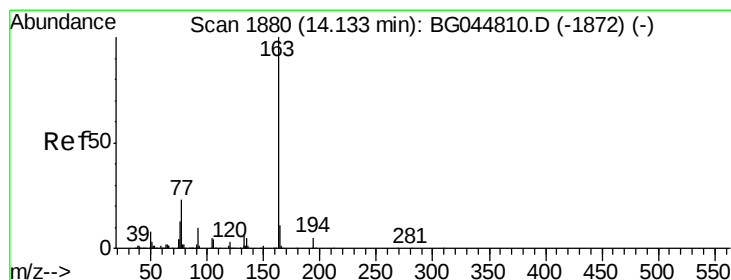
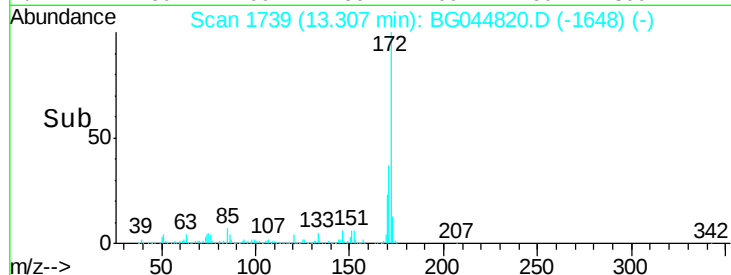
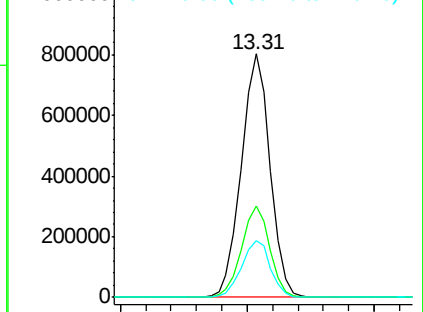
#45
2-Fluorobiphenyl
Concen: 65.09 ng
RT: 13.31 min Scan# 1739
Delta R.T. 0.00 min
Lab File: BG044820.D
Acq: 16 Mar 2020 19:37

Instrument :
BNA_G
ClientSampleId :
Z1-1

Tgt Ion:172 Resp: 1256283
Ion Ratio Lower Upper
172 100
171 37.5 28.7 43.1
170 23.4 19.0 28.6

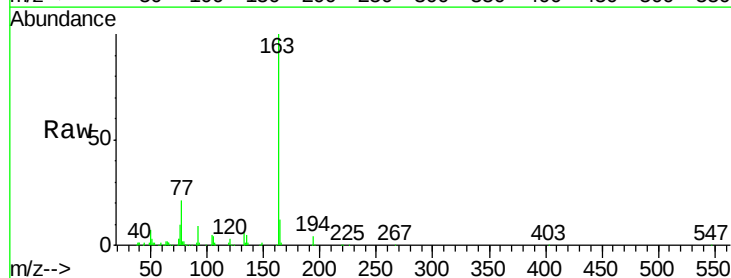


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

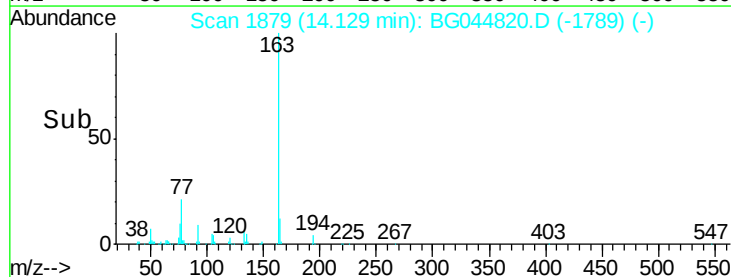
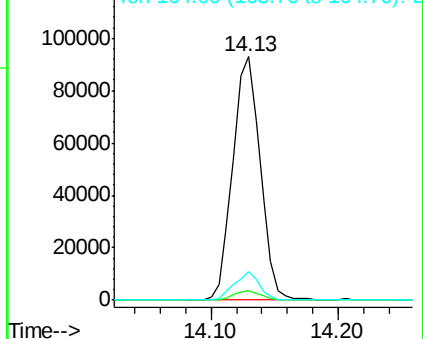


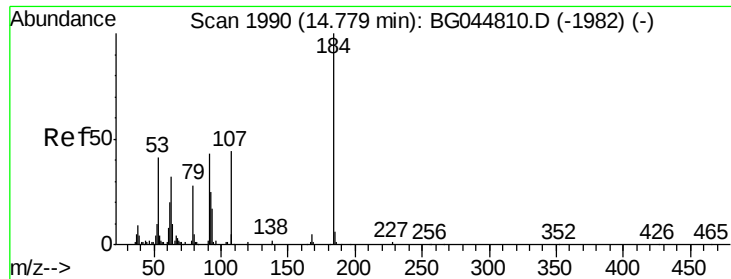
#50
Dimethylphthalate
Concen: 6.33 ng
RT: 14.13 min Scan# 1879
Delta R.T. -0.00 min
Lab File: BG044820.D
Acq: 16 Mar 2020 19:37

Tgt Ion:163 Resp: 139265
Ion Ratio Lower Upper
163 100
194 3.8 3.7 5.5
164 11.9 9.1 13.7



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

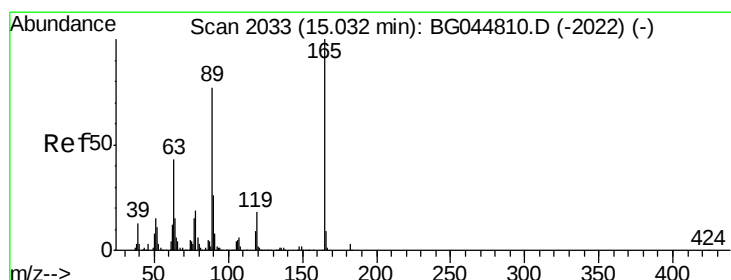
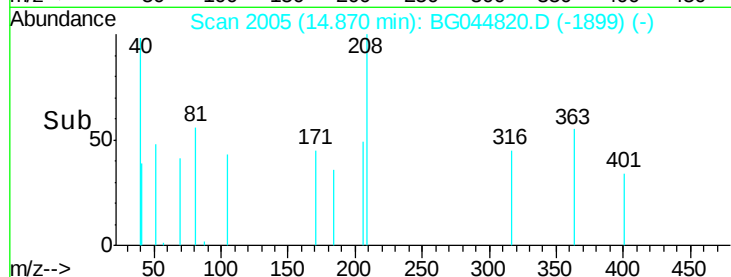
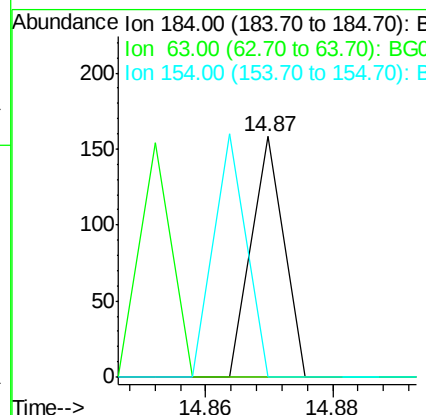
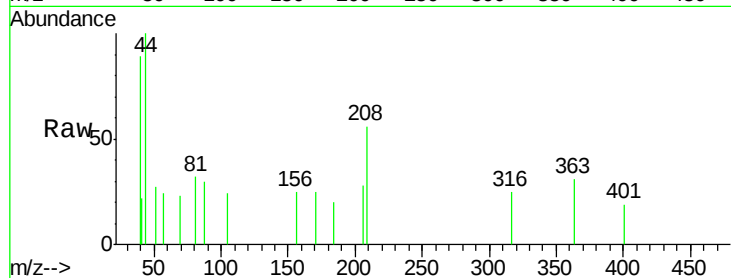




#54
2,4-Dinitrophenol
Concen: 8.34 ng
RT: 14.87 min Scan# 2005
Delta R.T. 0.09 min
Lab File: BG044820.D
Acq: 16 Mar 2020 19:37

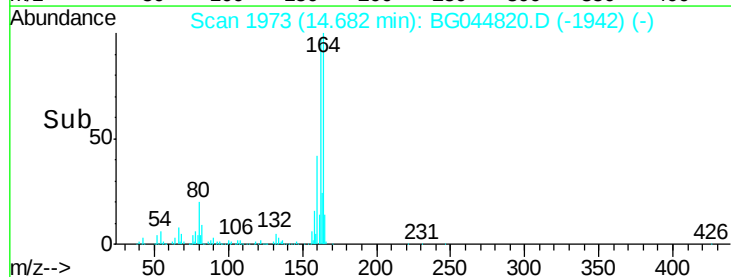
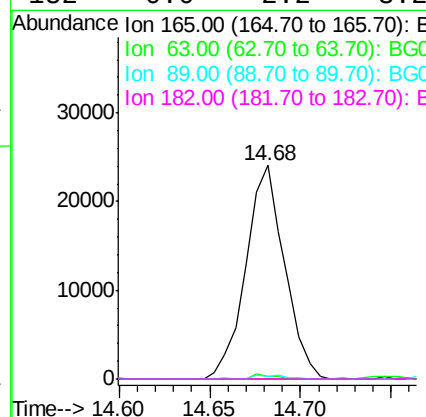
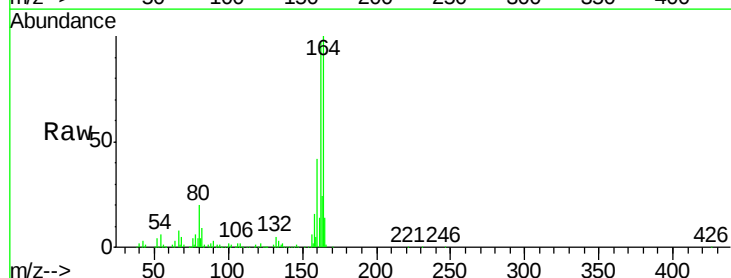
Instrument :
BNA_G
ClientSampleId :
Z1-1

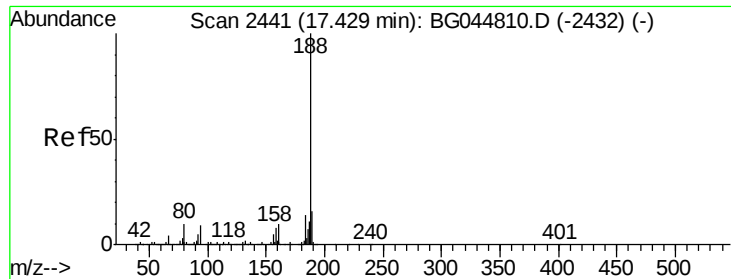
Tgt Ion:184 Resp: 56
Ion Ratio Lower Upper
184 100
63 0.0 45.5 68.3#
154 0.0 49.1 73.7#



#57
2,4-Dinitrotoluene
Concen: 5.89 ng
RT: 14.68 min Scan# 1973
Delta R.T. -0.35 min
Lab File: BG044820.D
Acq: 16 Mar 2020 19:37

Tgt Ion:165 Resp: 35827
Ion Ratio Lower Upper
165 100
63 1.0 34.6 52.0#
89 1.4 61.3 91.9#
182 0.0 2.2 3.2#

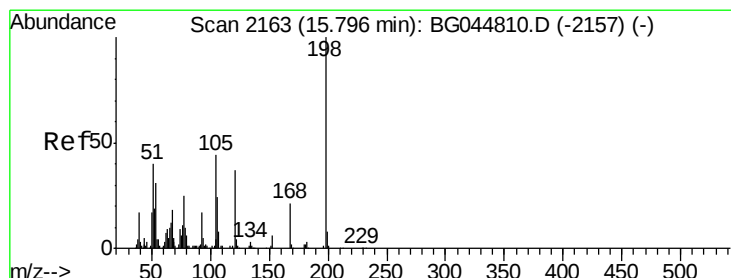
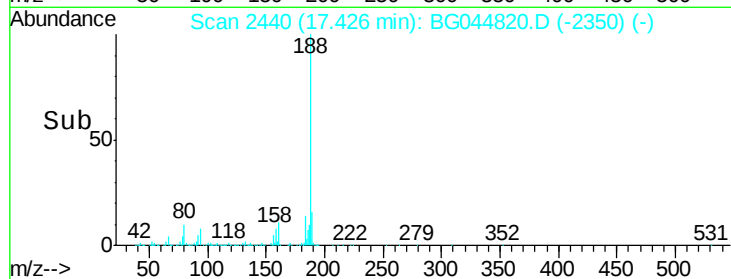
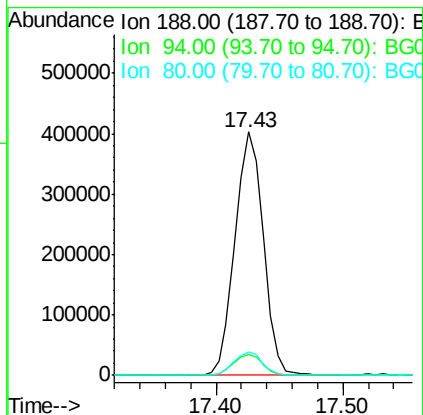
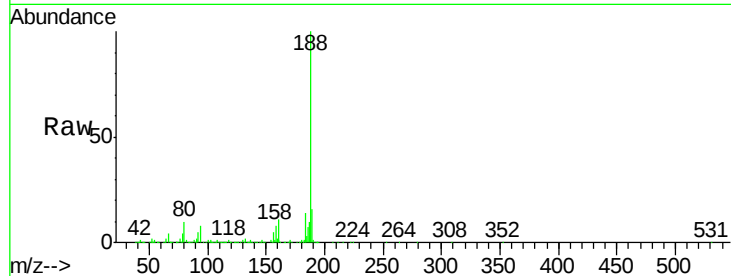




#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.43 min Scan# 2440
Delta R.T. -0.00 min
Lab File: BG044820.D
Acq: 16 Mar 2020 19:37

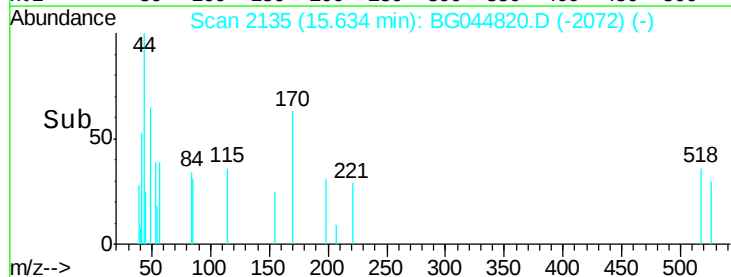
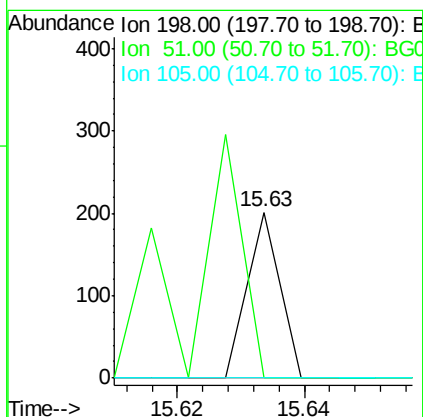
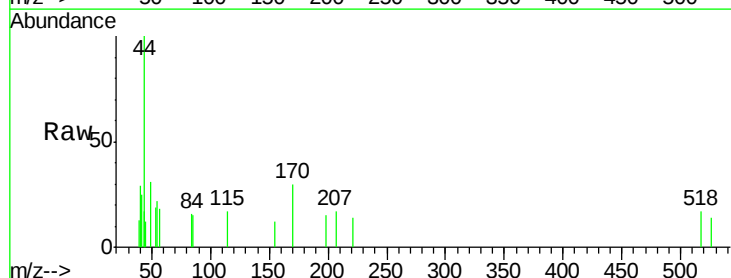
Instrument :
BNA_G
ClientSampled :
Z1-1

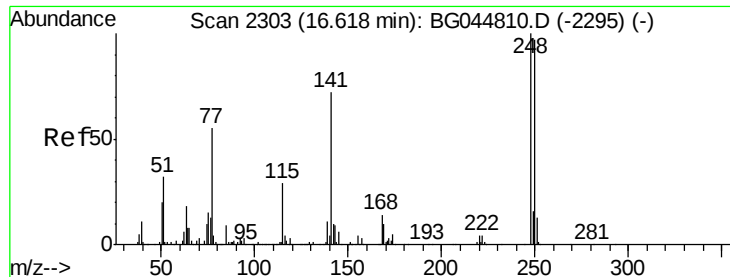
Tgt Ion:188 Resp: 623167
Ion Ratio Lower Upper
188 100
94 8.5 7.3 10.9
80 9.8 8.0 12.0



#65
4,6-Dinitro-2-methylphenol
Concen: 7.75 ng
RT: 15.63 min Scan# 2135
Delta R.T. -0.16 min
Lab File: BG044820.D
Acq: 16 Mar 2020 19:37

Tgt Ion:198 Resp: 71
Ion Ratio Lower Upper
198 100
51 0.0 21.1 61.1#
105 0.0 24.5 64.5#

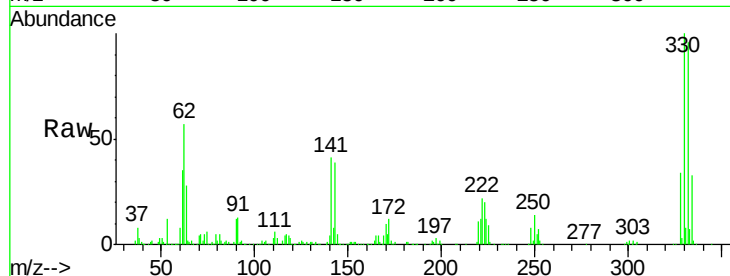




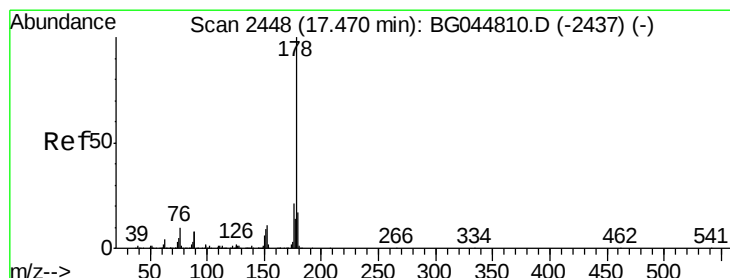
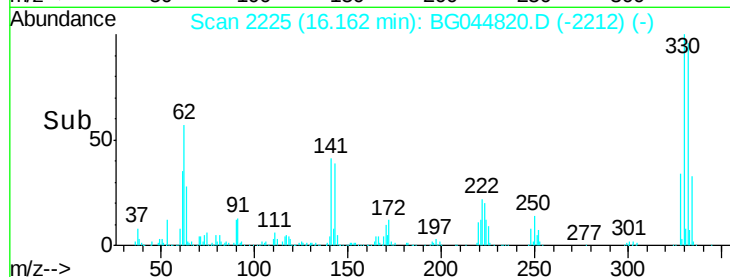
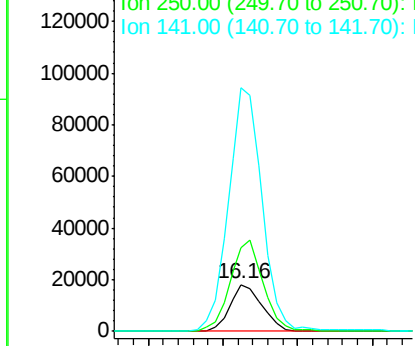
#67
4-Bromophenyl-phenylether
Concen: 3.54 ng
RT: 16.16 min Scan# 2225
Delta R.T. -0.46 min
Lab File: BG044820.D
Acq: 16 Mar 2020 19:37

Instrument :
BNA_G
ClientSampleId :
Z1-1

Tgt Ion:248 Resp: 27553
Ion Ratio Lower Upper
248 100
250 178.3 77.9 116.9#
141 517.1 57.5 86.3#

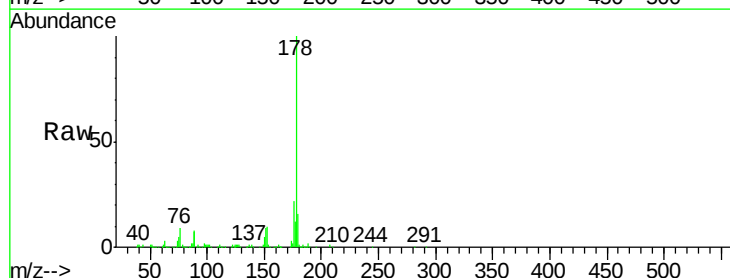


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

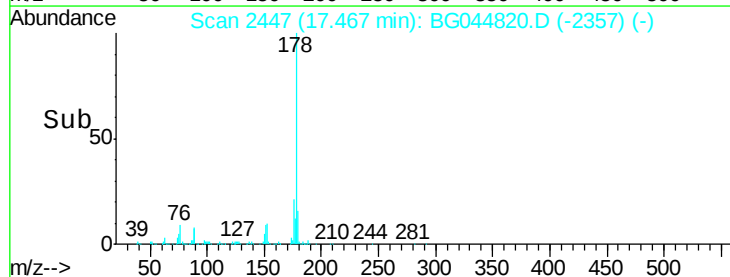
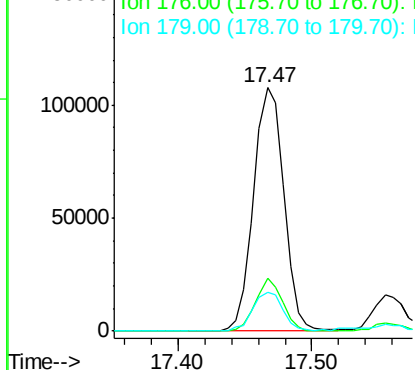


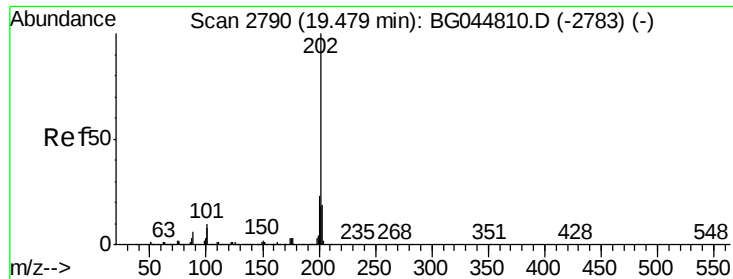
#71
Phenanthrene
Concen: 5.08 ng
RT: 17.47 min Scan# 2447
Delta R.T. -0.00 min
Lab File: BG044820.D
Acq: 16 Mar 2020 19:37

Tgt Ion:178 Resp: 169084
Ion Ratio Lower Upper
178 100
176 21.5 16.6 24.8
179 15.9 13.5 20.3



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 6.92 ng

RT: 19.48 min Scan# 2789

Delta R.T. -0.00 min

Lab File: BG044820.D

Acq: 16 Mar 2020 19:37

Instrument :

BNA_G

ClientSampleId :

Z1-1

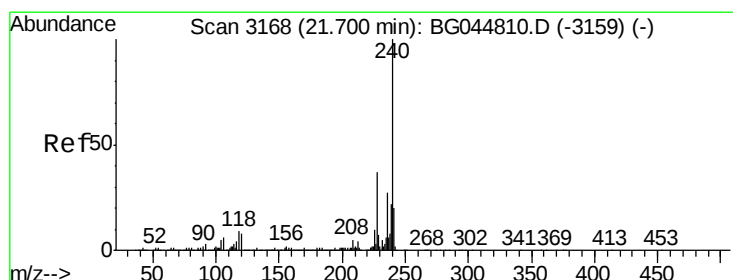
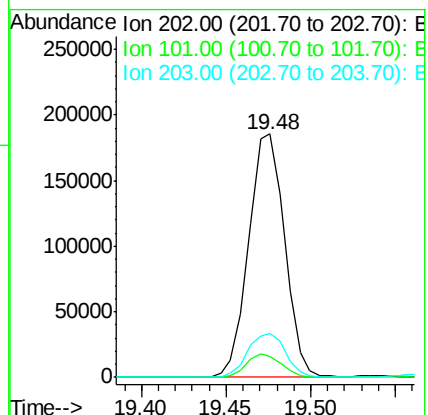
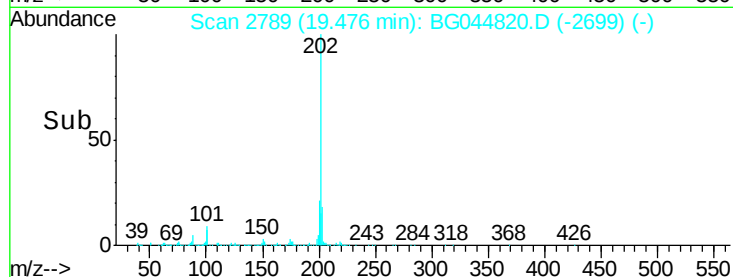
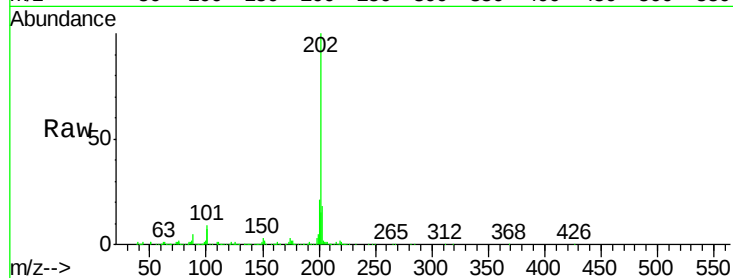
Tgt Ion:202 Resp: 274458

Ion Ratio Lower Upper

202 100

101 8.7 0.0 29.8

203 17.9 0.0 39.4



#76

Chrysene-d12

Concen: 20.00 ng

RT: 21.70 min Scan# 3167

Delta R.T. -0.00 min

Lab File: BG044820.D

Acq: 16 Mar 2020 19:37

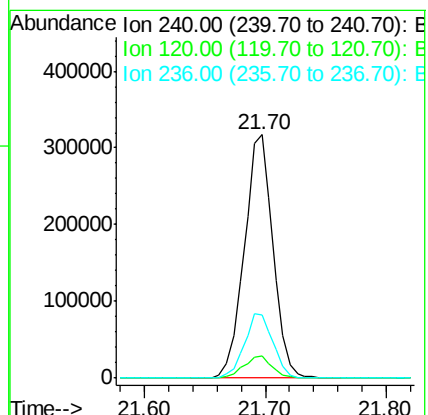
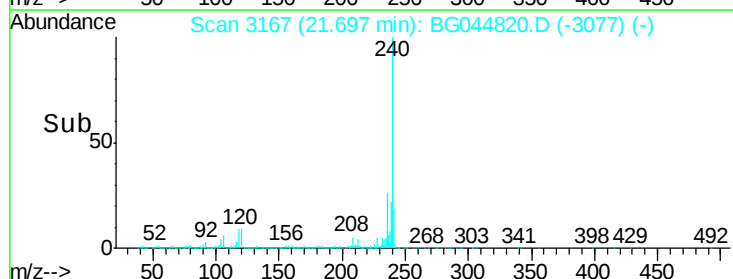
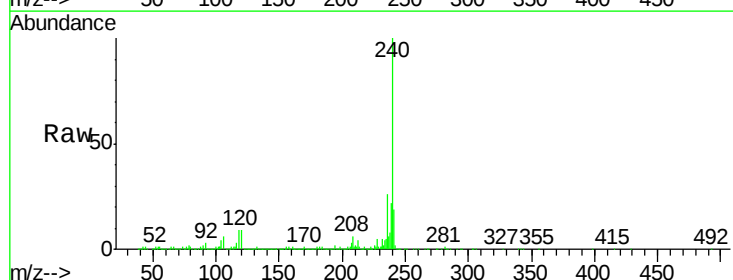
Tgt Ion:240 Resp: 523538

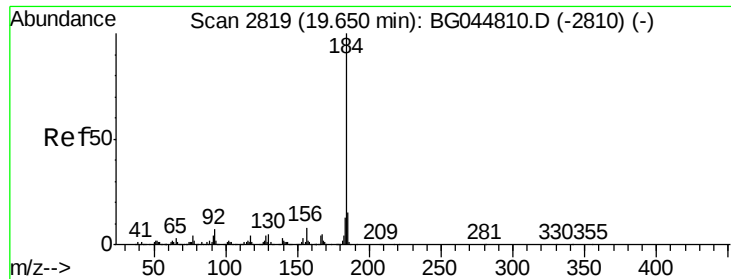
Ion Ratio Lower Upper

240 100

120 9.3 6.7 10.1

236 25.9 21.5 32.3





#77

Benzidine

Concen: 2.09 ng

RT: 20.04 min Scan# 2885

Delta R.T. 0.39 min

Lab File: BG044820.D

Acq: 16 Mar 2020 19:37

Instrument :

BNA_G

ClientSampleId :

Z1-1

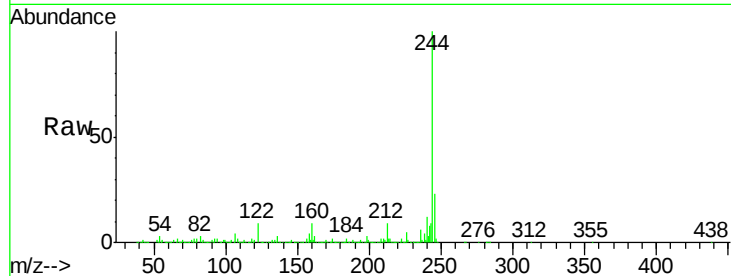
Tgt Ion:184 Resp: 35530

Ion Ratio Lower Upper

184 100

185 16.5 12.2 18.4

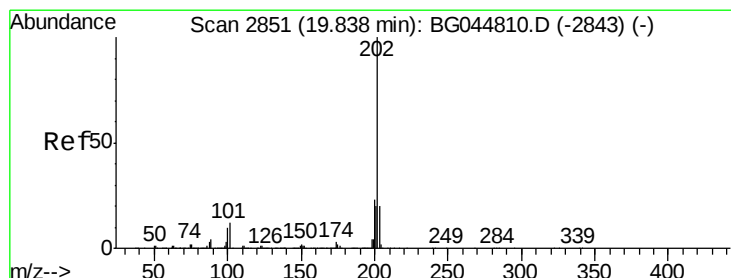
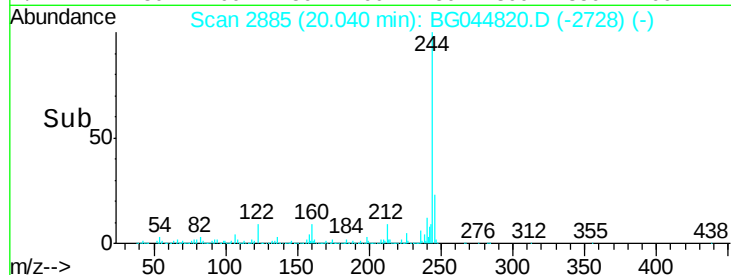
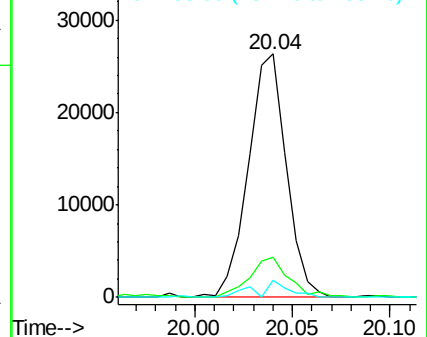
183 6.8 10.7 16.1#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 7.07 ng

RT: 19.83 min Scan# 2850

Delta R.T. -0.00 min

Lab File: BG044820.D

Acq: 16 Mar 2020 19:37

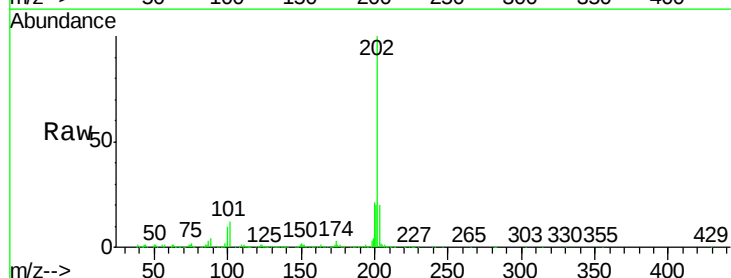
Tgt Ion:202 Resp: 271384

Ion Ratio Lower Upper

202 100

200 20.9 18.3 27.5

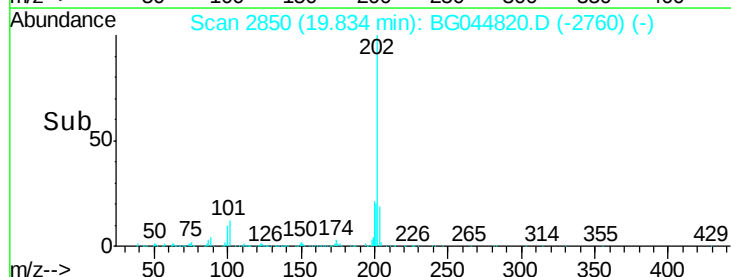
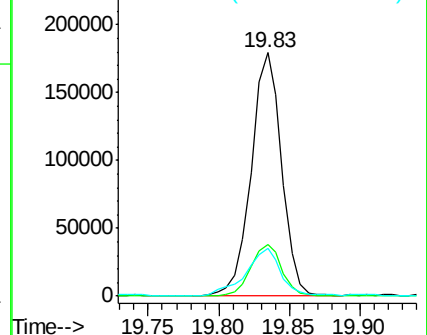
203 19.5 15.6 23.4

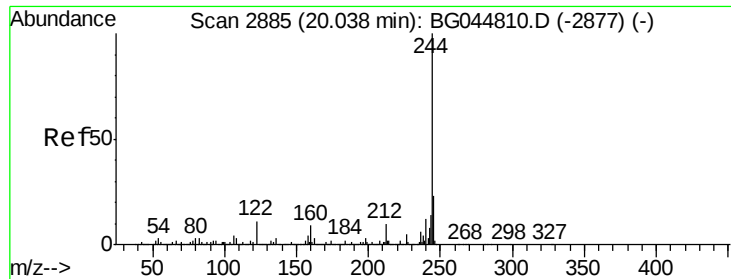


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 65.54 ng

RT: 20.04 min Scan# 2885

Delta R.T. 0.00 min

Lab File: BG044820.D

Acq: 16 Mar 2020 19:37

Instrument :

BNA_G

ClientSampleId :

Z1-1

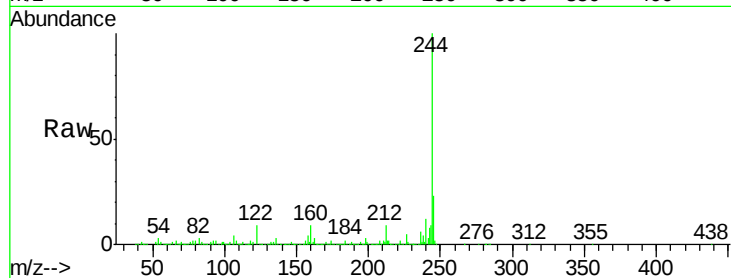
Tgt Ion:244 Resp: 1834453

Ion Ratio Lower Upper

244 100

212 9.2 7.7 11.5

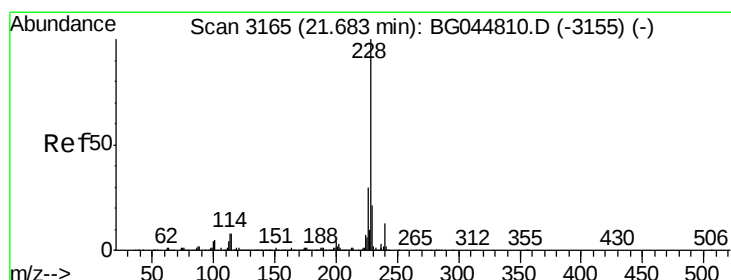
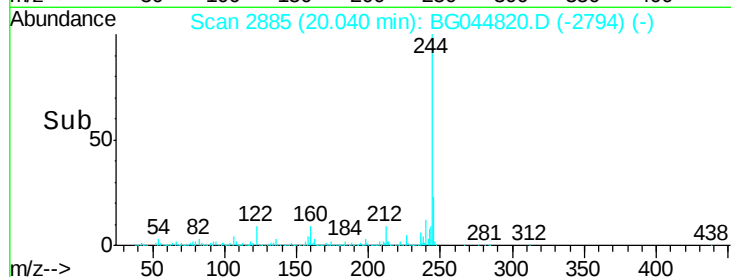
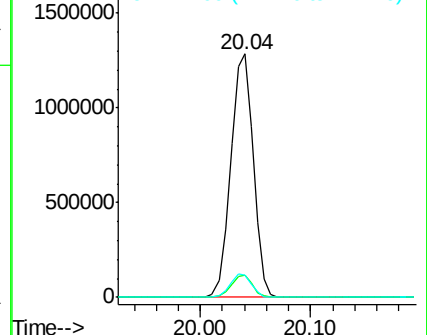
122 9.1 8.6 12.8



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 3.71 ng

RT: 21.67 min Scan# 3163

Delta R.T. -0.01 min

Lab File: BG044820.D

Acq: 16 Mar 2020 19:37

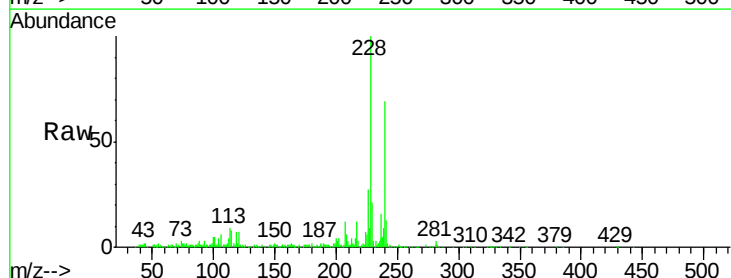
Tgt Ion:228 Resp: 139707

Ion Ratio Lower Upper

228 100

226 27.0 23.6 35.4

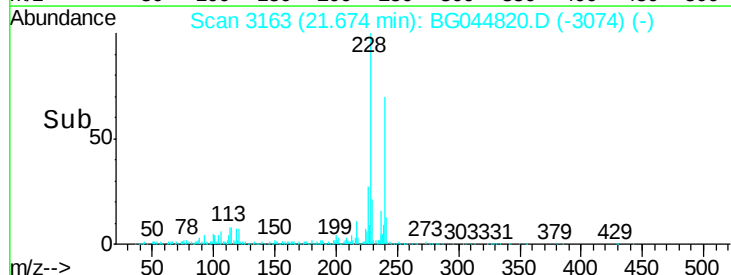
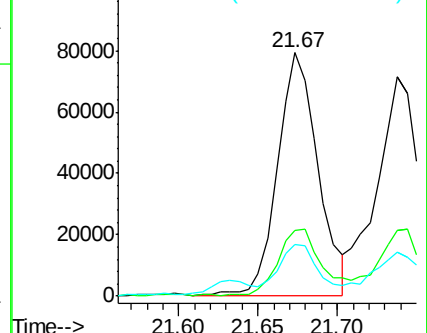
229 21.4 17.1 25.7

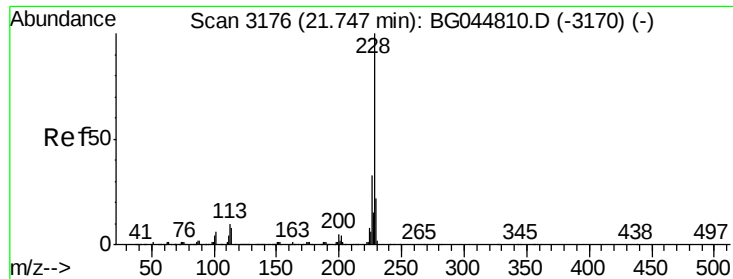


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 3.69 ng

RT: 21.74 min Scan# 3174

Delta R.T. -0.01 min

Lab File: BG044820.D

Acq: 16 Mar 2020 19:37

Instrument :

BNA_G

ClientSampleId :

Z1-1

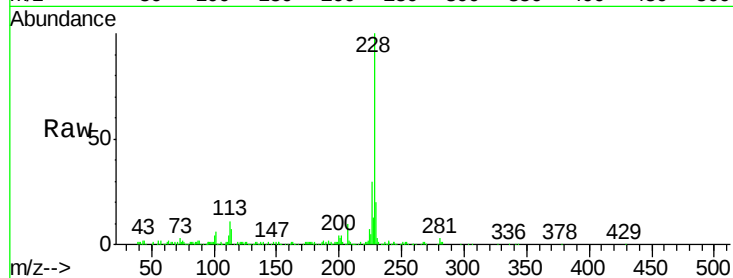
Tgt Ion:228 Resp: 132956

Ion Ratio Lower Upper

228 100

226 30.1 25.9 38.9

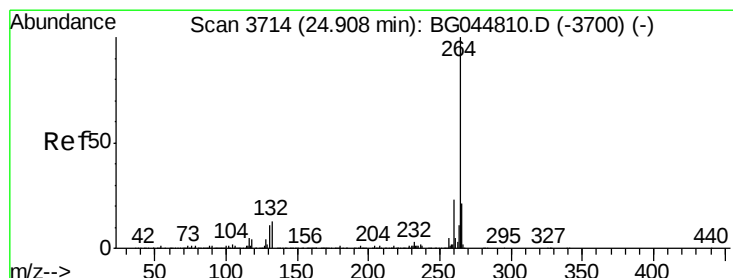
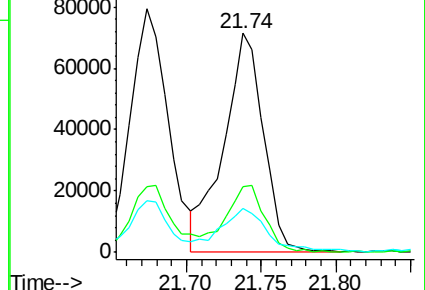
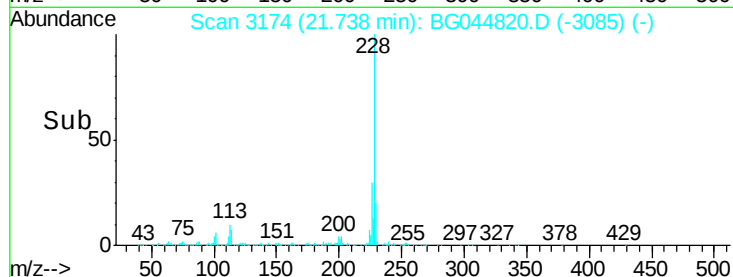
229 20.3 17.4 26.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#87

Perylene-d12

Concen: 20.00 ng

RT: 24.91 min Scan# 3713

Delta R.T. -0.00 min

Lab File: BG044820.D

Acq: 16 Mar 2020 19:37

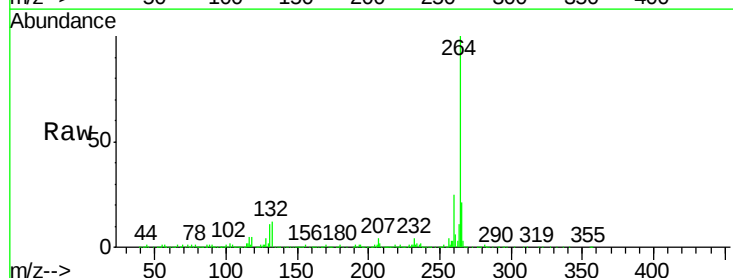
Tgt Ion:264 Resp: 596548

Ion Ratio Lower Upper

264 100

260 24.6 18.1 27.1

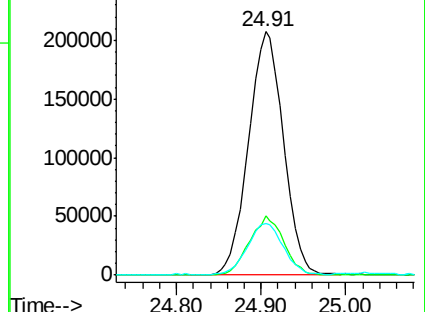
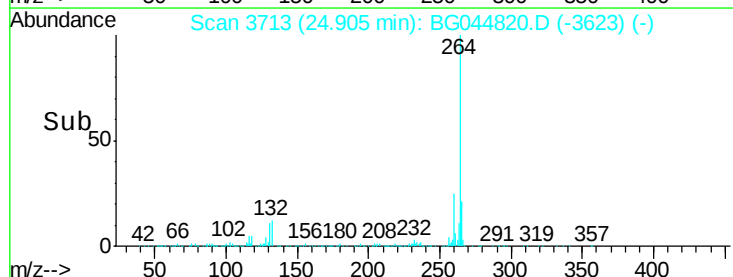
265 21.5 17.1 25.7

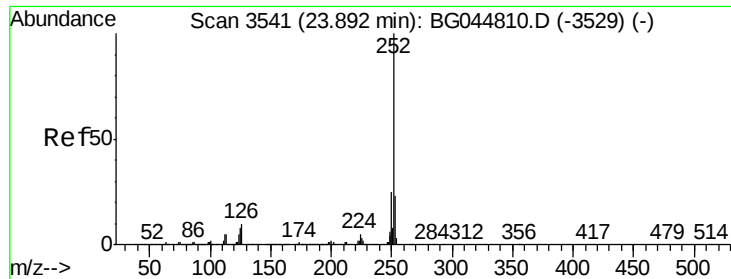


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

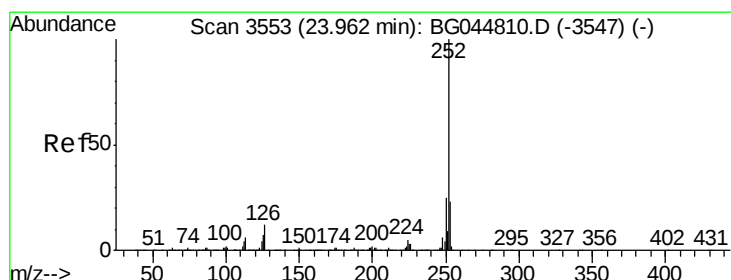
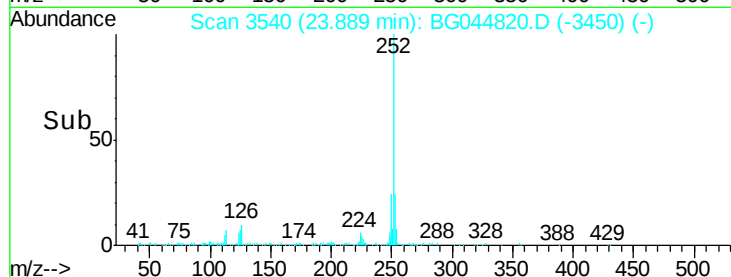
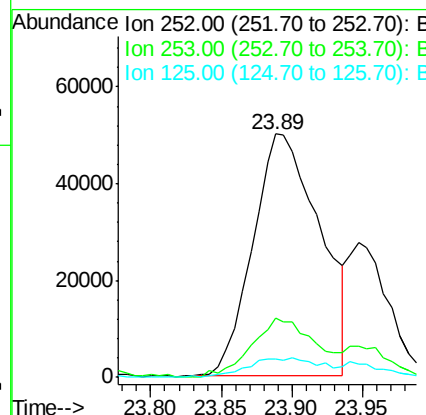
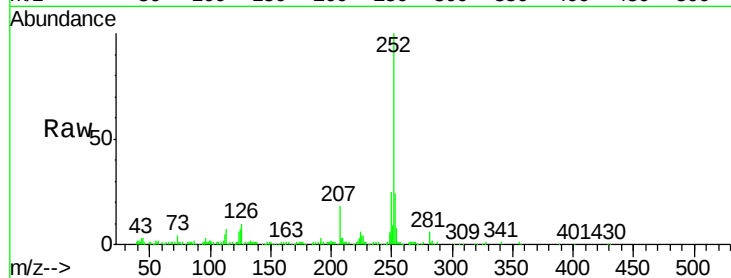




#88
Benzo(b)fluoranthene
Concen: 4.21 ng
RT: 23.89 min Scan# 3540
Delta R.T. -0.00 min
Lab File: BG044820.D
Acq: 16 Mar 2020 19:37

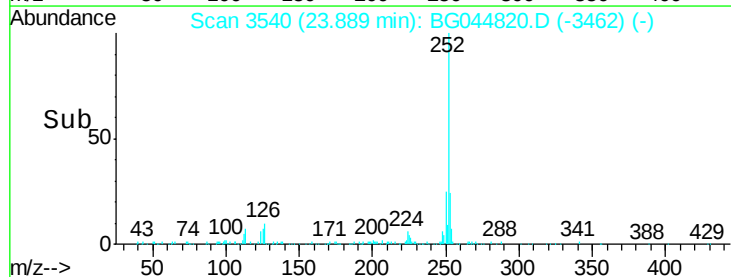
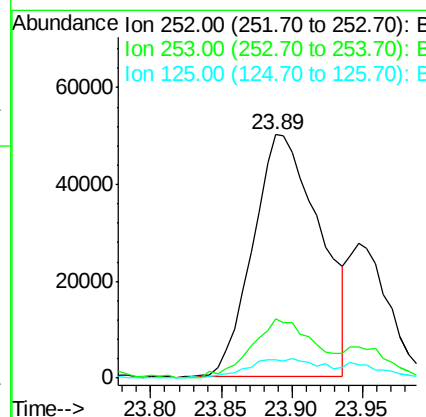
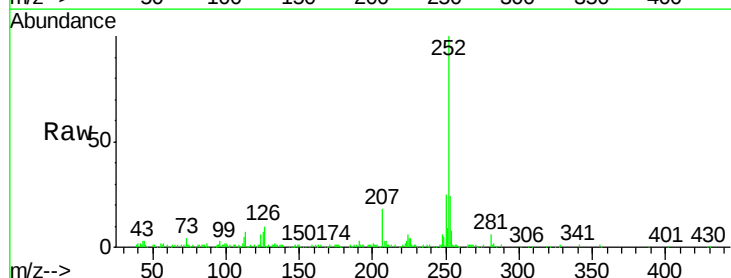
Instrument :
BNA_G
ClientSampleId :
Z1-1

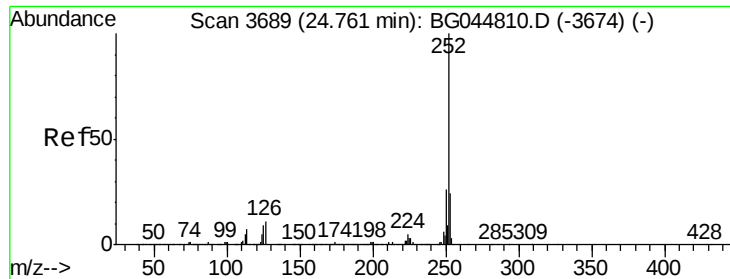
Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.1	27.1
125	7.4	6.6	9.8



#89
Benzo(k)fluoranthene
Concen: 4.45 ng
RT: 23.89 min Scan# 3540
Delta R.T. -0.07 min
Lab File: BG044820.D
Acq: 16 Mar 2020 19:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.5	27.7
125	7.4	6.2	9.2





#90

Benzo(a)pyrene

Concen: 3.30 ng

RT: 24.75 min Scan# 3686

Delta R.T. -0.02 min

Lab File: BG044820.D

Acq: 16 Mar 2020 19:37

Instrument :

BNA_G

ClientSampleId :

Z1-1

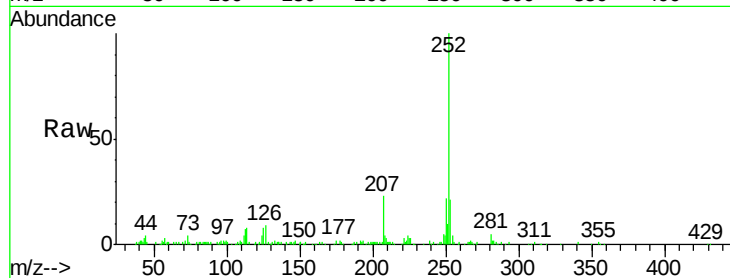
Tgt Ion:252 Resp: 121558

Ion Ratio Lower Upper

252 100

253 20.7 19.4 29.0

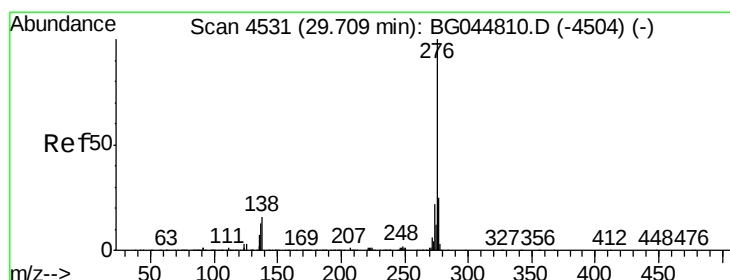
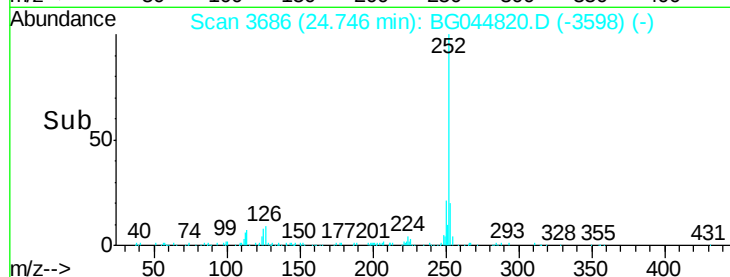
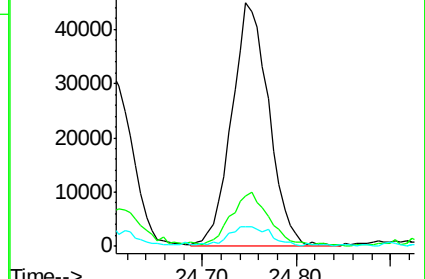
125 8.3 7.2 10.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92

Benzo(g,h,i)perylene

Concen: 2.21 ng

RT: 29.68 min Scan# 4525

Delta R.T. -0.03 min

Lab File: BG044820.D

Acq: 16 Mar 2020 19:37

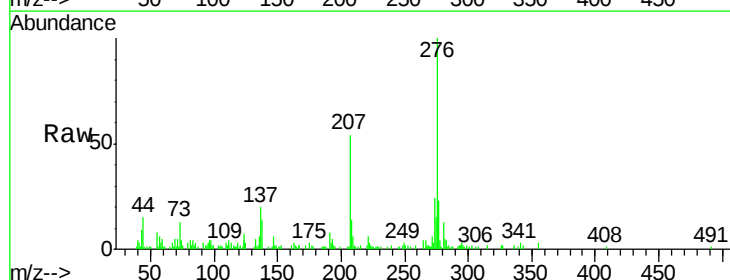
Tgt Ion:276 Resp: 81202

Ion Ratio Lower Upper

276 100

277 22.7 20.1 30.1

138 14.1 13.0 19.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

